Contestant Number: _____

Time: _____

Rank: _____

DATABASE APPLICATIONS
(240)

REGIONAL – 2015

Production:

Job 1: Volunteer Table	_____	(175 points)
Job 2: Service Table	_____	(120 points)
Job 3: Create a Permanent Relationship	_____	(25 points)
Job 4: Garden Grove Volunteers Query	_____	(80 points)
Job 5: Garden Grove Volunteers Report	_____	(35 points)
TOTAL POINTS	_____	*(435 points)*

Failure to adhere to any of the following rules will result in disqualification:
1. **Contestant must hand in this test booklet and all printouts. Failure to do so will result in disqualification.**
2. **No equipment, supplies, or materials other than those specified for this event are allowed in the testing area. No previous BPA tests and/or sample tests or facsimile (handwritten, photocopied, or keyed) are allowed in the testing area.**
3. **Electronic devices will be monitored according to ACT standards.**

No more than ten (10) minutes orientation
No more than 90 minutes testing time
No more than ten (10) minutes wrap-up

DATABASE APPLICATIONS
SCORING SHEET

Unless indicated otherwise, student receives all points or none.	Points Possible	Points Earned
Job 1 – Volunteer Table *(175 points maximum)*		
Designed as instructed (10 points off per field for inaccurate field names, inappropriate data types, and properties not set as instructed)	100	
Proofreading/data entry (1 point off for each error)	55	
Sorted by Last Name (ascending)	10	
Printed using best fit in landscape orientation (all data shows, 1 page)	10	
Job 2 – Service Table *(120 points maximum)*		
Designed as instructed (10 points off per field for inaccurate field names, inappropriate data types, and properties not set as instructed)	50	
Proofreading/data entry (1 pointsoff for each error)	50	
Sorted by Service Date, oldest to newest	10	
Printed in portrait orientation, 1 page, all fields fully visible	10	
Job 3 – Create a Permanent Relationship *(25 points maximum)*		
One-to-Many relationship created	10	
Referential integrity enforced	10	
Printed with both tables fully visible	5	
Job 4 – Garden Grove Query *(80 points maximum)*		
Correct fields are visible: Vol Id, First Name, Last Name, Shirt Size, Merit Badge, Service Date, Hours, Area, City (5 points off for each missing field)	45	
Restricted to Garden Grove volunteers	10	
Sorted by Last Name (ascending) and then Service Date (ascending)	10	
Results show design correctly joins both tables (no extra records)	10	
Printed in landscape orientation, 1 page, all fields fully visible	5	
Job 5 – Garden Grove Volunteers Report *(35 points maximum)*		
Title is GardenGroveVolunteers-XX-XXXX-XXXX	5	
Correct fields are included in the Report: all fields in the query except City	10	
Each volunteer's Service Dates are sorted oldest to newest	10	
Printed in portrait orientation, 1 page, all fields fully visible	10	
Total Points Earned	435	

GENERAL INSTRUCTIONS

1. Check that you have all the test pages.

2. Your name, initials, and school should NOT appear on any work you submit. Instead, type your contestant number everywhere XX-XXXX-XXXX appears.

3. If you finish before the end of the testing time, notify the administrator of the contest. Time may be a factor in determining placement in the event of a tie.

4. When turning in your completed work, order the printed pages by job number, and place your scoring sheet on top of all of your jobs. **Turn in all pages printed including incorrect printouts** (draw a line through each incorrect printout, and place it at the back of the group)**.**

Project: The nonprofit organization Helping Hands is interested in tracking the hours volunteers spend working for them and giving the volunteers a merit badge after reaching target levels. You offered to build them a sample database. Create a database named **Regional-XX-XXXX-XXXX**, and save it as directed by the administrator.

Job 1: Volunteer Table

1. Create the table named **Volunteers-XX-XXXX-XXXX** shown below. Use the same field names and assign the best data type for each field. Vol ID is the primary key.
2. Enter all records shown below:

Volunteers-XX-XXXX-XXXX									
Vol ID	First Name	Last Name	Address	City	State	ZIP	Phone	Shirt Size	Merit Badge
A-001	Betsy	Knowles	4576 Placita Ct	Anaheim	CA	92805	(562) 901-4572	Sm	Bronze
A-003	Gail	Smarts	6146 Angus Ave	Anaheim	CA	92805	(562) 901-3472	Xl	Bronze
A-004	Phil	Godson	3522 Camelot Dr	Anaheim	CA	92805	(562) 901-5478	Lg	Bronze
A-008	Tracy	Eekhoff	1058 Twin Oaks	Anaheim	CA	92805	(562) 901-1872	Xl	Bronze
G-002	Mike	Robbins	7304 Hersman St	Garden Grove	CA	92840	(714) 452-7849	Md	Bronze
G-004	Dennis	Sneider	132 Thousand Oaks	Garden Grove	CA	92840	(714) 452-2587	Sm	Bronze
G-005	Seth	Heiden	5753 Woodlawn	Garden Grove	CA	92840	(714) 452-0010	Me	Bronze
G-006	Julie	Edison	4137 Thornes	Garden Grove	CA	92840	(714) 452-7444	Lg	Bronze
S-003	John	Kamrath	3240 Cascade	Santa Ana	CA	92701	(949) 543-1022	Sm	Bronze
S-006	Natalie	Braden	1099 Burton	Santa Ana	CA	92701	(949) 543-7812	Xl	Bronze
S-007	Paul	Atchison	4544 Edge Hill	Santa Ana	CA	92701	(949) 543-6011	Lg	Bronze

3. Adjust the column widths so all entries are visible.
4. Sort the table on Last Name (ascending).
5. Print the table in landscape orientation. All data should be visible on one page.

Job 2: Service Table

1. Create a table named **Service-XX-XXXX-XXXX** shown below. Use the same field names and assign the best data type for each field unless specified.

    Data Type specifications:
    > ServiceID data type should be Number and primary key.
    > Service Date data type should be Date and formatted as Short Date.
    > Hours data type should be Number with Field Size Single, Format Fixed, and Decimal Places of 2.

2. Enter all of the records shown below:

ServiceID	Vol ID	Service Date	Hours	Area
Service-XX-XXXX-XXXX				
1	G-004	7/24/2013	6.25	Reception
2	G-006	7/20/2013	4.50	Accounting
3	G-002	10/3/2013	8.00	Reception
4	S-003	2/15/2014	4.00	Marketing
5	A-001	2/15/2014	6.00	Accounting
7	G-005	7/31/2013	5.75	Reception
8	G-006	8/19/2013	5.25	Accounting
9	G-002	11/3/2013	6.00	Reception
10	S-007	2/28/2014	3.25	Marketing
11	A-004	3/5/2014	2.50	Accounting

3. Adjust the column widths so all entries are visible.
4. Sort the table by Service Date in oldest to newest order.
5. Print the table in portrait orientation. All data should be visible on one page.

Job 3: Create a Permanent Relationship

1. Create a permanent relationship between the two tables.
2. Enforce referential integrity.
3. Resize/move the tables so each table name and each field is fully visible in the relationship window.
4. Create and print the relationship report.

Job 4: Garden Grove Volunteers Query
1. Create a query named **GardenGroveVolunteers-XX-XXXX-XXXX** using the tables/fields listed below:

Volunteers	Service
Vol ID	Service Date
First Name	Hours
Last Name	Area
Shirt Size	
Merit Badge	
City	

2. Restrict the results to only volunteers that live in the city Garden Grove.
3. Sort by Last Name in ascending order and then by Service Date (ascending).
4. Print the results in landscape orientation. All data should be visible on one page.

Job 5: Garden Grove Volunteers Report

1. Create a stepped report based on the query as shown below. Your report format such as borders, colors, and placement of fields may be different, but it must
   a. Have the same title.
   b. Show the same fields.
   c. Sort each volunteer's Service Dates in oldest to newest order (ascending).
   d. Have field widths/placement adjusted so all data is visible on one page in Portrait orientation.
2. Save the report as **GardenGroveVolunteers-XX-XXXX-XXXX**.
3. Print the report.

GardenGroveVolunteers-XX-XXXX-XXXX							
Vol Id	First Name	Last Name	Shirt Size	Merit Badge	Service Date	Hours	Area

Put your printouts in the following order:
1. Volunteers table
2. Service table
3. Query
4. Report
5. All incomplete/incorrect printed pages (draw a line through each one).